DECLARATION AND POWER OF ATTORNEY/AGENT

As below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first, and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

Determination of Metal Ions in Solution by Photoluminescence Anisotropy

which application is:

X the attached application (for original application)

_ application Serial No. _ filed _, (for declaration not accompanying application)

that I have reviewed and understand the contents of the specification of the above identified application, including the claims, as amended by any amendment referred to above; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56, that I hereby claim foreign priority benefits under Title 35, United States Code §119, §172, or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for patent or inventor's certificate of this invention having a filing date before that of the application on which priority is claimed:

Application Number

Country

Filing Date

Priority Claimed (yes or no)

I hereby claim the benefit of Title 35, United States Code §119(e) of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any material information under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number 60/045,289

Filing Date May 1, 1997 Status (patented, pending, abandoned)
Pending

I hereby appoint Chalin A. Smith, Esq., Reg. No. P-41,569 as my agent to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to:

Intellectual Property Division
Office of Research and Development
University of Maryland, Baltimore
515 West Lombard Street, Suite 500
Baltimore, MD 21201-1602
Tel: 410-706-1874; Fax: 410-706-5035

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date x 4/24/78 First Inventor Richard B Thompson	
Pacidance 7105 Rustol Road Signature A 7977	
Baltimore, MD 21212 Post Office Address 7106 Bristol Road	
Citizenship U.S.A. Baltimore, MD 21212	
Date Second Inventor Daniel Elbaum	
Residence 25 Sherrin Road Signature	
Residence 25 Sherrin Road Signature Newton, MA 02162 Post Office Address 25 Sherrin Road	
Citizenship Newton, MA 02162	

Page 1 of 2

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Media, PA 19063
Citizenship
Date
Residence 9651 Hingston Downs
Columbia, MD 21046
Citizenship U.S.A.
Date
Residence 3-D Beacon Village
Burlington, MA 01803
Citizenship P.R.C.
Chizenship T.K.C.
Data = Ample 1558
Date x April 27, 1757 Residence 2803 North Calvert Street
D-16: NCD 01010
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Dr. Richard Thompson

DECLARATION AND POWER OF ATTORNEY/AGENT

As below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe I am the original, first, and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

Determination of Metal Ions in Solution by Photoluminescence Anisotropy

which application is:
_the attached application
(for original application)

X application Serial No. <u>09/071.351</u> filed <u>4/30/98</u>, and amended on _ (for declaration not accompanying application)

that I have reviewed and understand the contents of the specification of the above identified application, including the claims, as amended by any amendment referred to above; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56, that I hereby claim foreign priority benefits under Title 35. United States Code §119, §172, or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for patent or inventor's certificate of this invention having a filing date before that of the application on which priority is claimed:

Application Number

Country

Filing Date

Priority Claimed (yes or no)

I hereby claim the benefit of Title 35, United States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any material information under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number

Filing Date

Status (patented, pending, abandoned)

I hereby appoint Chalin A. Smith, Reg. No. 41,569 as my agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to:

Office of Research and Development University of Maryland, Baltimore 515 West Lombard Street, Suite 500 Baltimore, Maryland 21201-1602

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date First	Inventor Richard B. Thompson
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Onte <u>8/4/96</u> Seco	nd Inventor Daniel Elbourn
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Newton, MA 02162 02462 OF Post	Office Address 25 Sherrin Road
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Page 1 of 2

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Media, PA 19063 Citizenship x USA
Citizenship x 05/F
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Date
Residence 3-D Beacon Village
Burlington, MA 01803
Citizenship P.R.C.

Third Inventor Badri P. Maliwal
Signature
Post Office Address 2803 North Calvert Street
Baltimore, MD 21218
\$
Fourth Inventor Marcia W. Patchan
Signature
Post O ffice Address 9651 Hingston Downs
Columbia, MD 21046
Fifth Inventor <u>Daniel Elbaum</u>
Signature Post Office Address25 Sherrin Road
Newton, MA 02162
Sixth Inventor <u>Navid Christianson</u>
Signature X PWP/LLL
Post Office Address 160 Carnoustie Way
Media, PA 19063
Seventh Inventor <u>Zhengfang Ge</u>
Signature
Post Office Address 3-D Beacon Village
Rudington MA 01803

Date
Date
Arnold, MD 21012
Citizenship U.S.A.
Date
Residence 160 Carnoustie Way
Media, PA 19063
Citizenship
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Date X May 2, 1998 Residence 9681 Hingston Downs
Columbia, MD 21046
Citizenship U.S.A.
Date
Date Residence _3-D Beacon Village
Burlington, MA 01803
Citizenship P.R.C.
_
Date
Date
Baltimore, MD 21218
Citizenship U.S.A.

Third Inventor Vincent L. Feliccia Signature Post Office Address 612 Talon Court Arnold, MD 21012
Fourth Inventor David Christianson
S:
Post Office Address 160 Carnoustie Way
Media, PA 19063
1410010, 171 17003
Fifth Inventor Marcia W. Patchan
Signature XIVaucia W. Patchan
Post Office Address 9651 Hingston Downs
Columbia, MD 21046
Cotations, wid 410 10
Sixth Inventor Zhengfang Ge
Signature
Post Office Address 3-D Beacon Village
Burlington, MA 01803
Duting ton 1944 VIOU
Seventh Inventor Badri P. Maliwal
Signature
Post Office Address 2803 North Calvert Street
Baltimore MD 21218

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Date May 7, 78 Residence 3-D Beacon Village
Burlington, MA 01803
Citizenship P.R.C.
Citizensinp <u>F.G.C.</u>
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Date
Residence 2803 North Calvert Street
Baltimore, MD 21218
Citizenship U.S.A.

OCT-17-2000 TUE 09:05 AM BSKB

FAX NO. 7032058050

P. 03

PATENT 3645-101P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. THOMPSON

Appl. No.:

09/071,351

Group:

1743

Filed:

April 30, 1998

Examiner: SODERQUIST

For:

DETERMINATION OF METAL IONS IN SOLUTION

BY PHOTOLUMINESCENCE

REVOCATION OF POWER OF ATTORNEY, SUBSTITUTE POWER OF ATTORNEY, AND CHANGE IN CORRESPONDENCE ADDRESS

Assistant Commissioner for Patents Washington, DC 20231

Sir:

The Assignee of the above-identified patent application or issued patent. University of Maryland, Baltimore, having a business office at the West Lombard Street, Suite \$00, Office of Research and Development, Baltimore, Maryland 21201-1602, at evidenced by the enclosed Certificate Under 37 C.F.R. \$ 3.73(b) showing chain of title, hereby revokes any and all previous powers of attorney for the above-identified patent application or issued patent, and hereby appoints:

RAYMOND C. STEWART JOSEPH A. KOLASCH BERNARD L. SWEENEY CHARLES GORENSTEIN LEONARD R. SVENSSON ANDREW D. MEIKLE JOE MCKINNEY MUNCY JOHN W. BALLEY	(Req. No. 21,066) (Req. No. 22,463) (Req. No. 24,448) (Req. No. 29,271) (Req. No. 30,330) (Req. No. 32,868) (Req. No. 32,334) (Req. No. 32,881)	TERRELL C. BIRCH JAMES M. SLATTERY MICHAEL K. MUTTER GERALO M. MURPHY, JR. TERRY L. CLARK MARC S. WEINER DONALD J. DALEY JOHN A. CASTELLANO	(Reg. No. 19.382) (Reg. No. 28.380) (Reg. No. 28,680) (Reg. No. 28,877) (Reg. No. 32.644) (Reg. No. 32,181) (Reg. No. 34,313) (Reg. No. 35,094)
CARY D. VACURA	(RAG. No. 35, 416)		

of the firm of Birch, Stewart, Kolasch & Birch, LLP as the attorneys of the Assignee to receive all correspondence relating to the above-identified application or patent and to transact all

PAGE

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FAX NO. 7032058050

P. 04

Docket No. 3645-0101P

business in the United States Patent and Trademark Office connected therewith, with full power of substitution and revocation, and the Assignee ratifies any act done by the Assignee's attorneys in respect of this patent. The new correspondence address is:

BIRCH, STEWART, KOLASCH & BIRCH, LLF or Gustomer No. 2292 P.O. Box /47 Falls Church, VA 22040~0747

The undersigned (whose title is supplied below) is empowered to sign this Revocation and Substitute Power of Attorney on behalf of the Assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

10/17/00 Date

Joann A. Boughman, Ph.D.

Typed of printed name

Dean, Graduate School and Vice President, Academic Affairs
Title

Enclosure:

Certificate Under 37 C.F.R. § 3.73(b) showing chain of title.

(Rev. 04/19/2000)

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OCT-17 2000 TUE 09:06 AM BSKB

FAX NO. 7032058050

P. 05

PATENT 3645-0101P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. THOMPSON et al.

Appl No.:

09/071,351

Group:

1743

Filed:

April 30, 1998

Examiner: A. SODERQUIST

Patent No.:

Issue Date:

For:

DETERMINATION OF METAL IONS IN SOLUTION

BY PHOTOLUMINESCENCE ANISOTROPY

CERTIFICATE UNDER 37 C.F.R. S 3.73(b) SHOWING CHAIN OF TITLE

Assistant Commissioner for Patents Washington, DC 20231

Sir:

University of Maryland, Baltimore, a University, certifies that it is the assignee of the patent application or issued patent identified above by virtue of either:

An assignment from the inventor(s) of the patent application or issued patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 9359, Frame 0389-0392, or for which a copy thereof is attached.

- OR -

В.	П	A chain of	title from	the inventor(s),	of the	patent
		application	or issued	patent identified	above,	to the
		current ass:	ignee as sho	wn below:		

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P. 08

Appl. No. 09/071,351

7. From:
To:
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Office at Reel , Frame , or for which a copy
thereof is attached.

3. From:
To:
The document was recorded in the Patent and Trademark
Office at Reel , Frame , or for which a copy
thereof is attached.

- Additional documents in the chain of title are attached.
- Copies of assignments or other documents in the chain of title are attached

The undersigned has reviewed all the documents in the chain of title of the patent application or issued patent identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

10/17/00

Joann A. Boughman, Ph.D.

Typed or printed name

Dean, Graduate School and

Vice President, Academic Affairs

Signature

(kov. \$4/19/2000)

(410) 706-7122

p.8

OCT 17-2000 TUE 09:07 AM BSKB

FAX NO. 7032058050

P. 09

ASSIGNMENT

Whereas, We.

Richard B. Thompson 7106 Bristol Road Baltimore, MD 21212

Vincent L. Feliccia 612 Talon Court Arnold, MD 21012

Badri P. Maliwai 2803 North Culvert Street Baltimore, MD 21218

heremafter called Assignor, have co-invented certain improvements in:

Determination of Metal loas in Solution by Photoluminescence Aussirepy

and executed U.S. Provisional Patent Application Sensi No. 68/045.289., filed May 1. 1997, for Letters Patent of the United States of America; and

Whereas, the University of Maryland, Baltimore, \$20 West Lombart Street, Baltimore, MD 21201 (assignee), desires to acquire our entire right, title, and interest in the application and invention, and to any United States and foreign patents to be obtained therefor:

New therefore, for One Dollar (\$1.00) and other valuable consideration, receipt whereof is hereby acknowledged.

We, the above named assignors, hereby sell, assign, and transfer to the above named assignee, its successors and assigns, our entire right, title and interest in the application and the invention disclosed therein for the United States of America and all countries foreign thereto, including rights of priority under the International convention of Paris (1883) as amended, and we request the Commissioner of Patenta to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

Signed and sealed		///	
Date:	4/29/98		
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OCT-17-2000 TUE 09:07 AM BSKB

FAX NO. 7032058050

P. 10

ASSIGNMENT

Whereas, I.

Marcia W. Patchan 9651 Hingston Downs Columbia, MD 21046

herematter called assignor, have co-invented certain improvements in:

Determination of Metal Ions in Solution by Photoluminescance Anisotropy

and executed U. S. Provisional Patent Application No. <u>60/045.289</u> filed <u>May 1. 1997</u> for Letters Patent of the United States; and

Whereas, University of Maryland, Baltimore, 520 West Lombard Street, Baltimore, MD 21201 (assignee), desires to acquire my ontire right, title, and interest in the application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for One Dollar (\$1.00) and other valuable consideration, receipt whereof is hereby acknowledged.

I, the above named assignor, hereby sell, assign, and transfer to the above named assigner, its successors and assigns, my entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim under 35 U.S.C. §119, and I request the Commissioner of Palents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I hereby execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Signed and scaled

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Marcia W Patchen

DATE: 11/04 2, 1998

State of Marytand County of Haust M

Subscribed and sworn to before me this

_day of _____day____

1998.

BUSS SCHEUMACK
MOTARY PUBLIC STATE OF MARYLAND
His Commission Expline February 20, 2003

Notary Public

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PACE 85

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FAX NO. 7032058050

P. 11

ASSIGNMENT

Whereas, L

Zhengfang Ge 3-D Bescon Village Burlington, MA 01803

hereinatter called assignor, have co-invented certain improvements in:

Determination of Metal lons in Solution by Photoluminescence Anisotrapy

and executed U.S. Provisional Patent Application No. 60/045.289 filed May 1, 1997 for Lotters Patent of the United States; and

Whereas, finiversity of Maryland, Baltimore, 520 West Lombard Street, Baltimore, MD 31201 (assignee), desires to acquire my entire right, title, and interest in the application and invention, and to any United States and foreign parents to be obtained therefor,

Now therefore, for One Dollar (\$1,00) and other valuable consideration, receipt whereof is hereby acknowledged.

I, the above numed assignor, hereby sell, ussign, and transfer to the above named assigner, its successors and assigns, my entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim under 35 U.S.C. §119, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignes, its successors and assigns; and I hereby execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Signed and realed

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Country of middle Sex

Subscribed and sworn to before me this

\$250 years removement and required for recording but in prime facts evidence of constation under 35 U.S.C. § 261).

MARY I RAYMOND Hotely Public My Commission Explica April 22, 2004

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(410) 706-7122

P. 11

OCT 17-2000 TUE 09:08 AM BSKB

FAX NO. 7032058050

P. 12

Date: August 4, 1998

Express Mail Label No. EL076214261US

I hereby certify that this paper or fee is being deposited with the United States Postal Service using "Express Mail Post Office to Addresseo" service under 37 CRF 1.10 on the date indicated above and is addressed to "Box Assignment. Assistant Commissioner for Patents, Washington, D.C. 20231."

Signed

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Dorothy S. Doepki

PAGE 67

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18/16/2008 11:02 410-786-5635

PATENT 3645-101P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. TROMPSON

Appl. No.:

09/071,351

Group:

1743

Filed:

April 30, 1998

Examiner: SODERQUIST

For:

DETERMINATION OF METAL LONS IN SOLUTION

BY PHOTOLUMINESCENCE

REVOCATION OF POWER OF ATTORNEY, SUBSTITUTE POWER OF ATTORNEY, AND CHANGE IN CORRESPONDENCE ADDRESS

Assistant Commissioner for Patents Washington, DC 20231

Sir:

The Assignee of the above-identified patent application or issued patent, <u>University of Pennsylvania</u>, having a business office at <u>3700 Market Street</u>, <u>Suite 300</u>, <u>Intellectual Property Office</u>, <u>Philadelphia</u>, <u>Pennsylvania</u>, <u>19104-3147</u>, as evidenced by the enclosed Certificate Under 37 C.F.R. § 3.73(b) showing chain of title, hereby revokes any and all previous powers of attorney for the above-identified patent application or issued patent, and hereby appoints:

RAYMOND C. STEWART	(Aeg. No. 21,066)	terrell C. Birch	(Reg. No. 19.382)
JOSEPH A. KOLASCH	(Reg. No. 27,461)	James M. Slattery	(Reg. No. 20,380)
BERNARD L. SWEENEY	(Reg. No. 24,448)	Michael K. Mutter	(Reg. No. 29,680)
CHARLES GORENSTEIN	(Reg. No. 79,271)	GERALD M. MURPHY, JR.	(\$45. No. 20,977)
Leonard R. Svensson	(Reg. 20, 30, 330)	TERRY L. CLARK	(Reg. No. 32,644)
ANDREW D. MEIKLE	(Rug. No. 32,866)	Marc S. Weiner	(Reg. No. 32,181)
Joe McKinney Muncy	(Reg. No. 32,334)	DONALD J. DALEY	(Reg. mo. 34,313)
JOHN W. BAILEY	(Reg. No. 32,681)	JOHN A. CASTELLANO	(Rug. No. 35,094)
GARY D. YACUBA	(Reg. No. 35,416)		

of the firm of Birch, Stewart, Kolasch & Birch, LLP as the attorneys of the Assignee to receive all correspondence relating to the above-identified application or patent and to transact all

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Docket No. 3645-0101P

business in the United States Patent and Trademark Office connected therewith, with full power of substitution and revocation, and the Assignee ratifies any act done by the Assignee's attorneys in respect of this patent. The new correspondence address is:

BIRCH, STEWART, KOLASCH & BIRCH, LLP or Customer No. 2292 P.O. Box 747 Falls Church, VA 22040-0747

The undersigned (whose title is supplied below) is empowered to sign this Revocation and Substitute Power of Attorney on behalf of the Assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may peopardize the validity of the application or any patent issued thereon.

10/18/00

Signature LOUIS P. BERNEMAN MANAGING DIRECTOR

CENTERFORFFECHNOLOGY FRANSPER

Title

Enclosure:

Certificate Under 37 C.F.R. § 3.73(b)

showing chain of title.

(Rev. 00/19/2000)

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OCT-17-2000 TUE 09:10 AM BSKB

FAX NO. 7032058050

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration point to Daniel Minute, the statistical point of the Desire of the University of Ferromands, a recognition of consideration and evidence under the laws of the Correspondent of Perceptuals bewing a principal plane of business at 3700 Market Bress, Balle 300, Philadelphia, Perreptuals 19104-3147 (the Assignate) their entire rights, this and interests

(an defined in 35 U.S.C. § 100), check applicable box(es) III and throughout the world,

in the invention feature as Desertion of Metal Ican and Other Assistant by Photograms Assistant for which application(s) for puters was made in the United States of America on Mar 1, 1997, (also known as provinced) US application 60/045,289), and on April 20, 1999 (also known is Non-provisional Applications No. 00071 2511, and in any and all applications therefor, in any and all Lemma Paramiles and all consenses, extensions, removale, remo the above-named Assistant to the same extent as they would have been held and enjoyed by the understand had this sampares been made

The undersigned agree(s) to access all papers receiving in connection with the application(s) and any containing divisional, related, related on account application of the containing of account application of the containing of t Assigned root doors recessary or expedient.

The undersigned agree(s) to constite all papers necessary in connection with any interference that may be declared concerning the application(s) or my constraint, divisional, remains or renormalistics application thereof and to cooperate with the Assignme in every way presents in obtaining evidence and going forward with such interference.

The undersigned hereby expresses that undersigned has (they have) full pight to convey undersigned units interest have analysed, and that undersigned has (they have) not encoursed, and will not expense, any agreement in conflict theresids.

The undersigned hereby graph(s) Townsend and Terraneral and Crew LLP, Two Embassedore Contro, Highth Floor, Ban Francisco.

CA 94111-5934, power to branet in this assignment any further identification that pay be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITHIESS WITHREAF, encouled by the maderiagned on the date opposite her name.

7/12/38 Signature of Inventor: 🗷

STATE OF PENNSYLVANIA:

COUNTY OF PHILADELPHIA:

19 TR. before me. BEANADENZ P. On this 12 TH day of 1464

Daniel Elbaum

[$\sqrt{|}$ personally known to me -QR- [-] proved to me on the basis of satisfactory evidence to be the person() where name(s) is seembled to the within instrument and solve-winded to me that he/she/fley constant the same in his/archine satisfaction openly(in), and that the his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) architecture the insuranent.

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P. 20

ASSIGNMENT

In consideration of the sum of One Doller (\$1.00) or equivalent and other good and valuable consideration paid to David Civishment, the under signed, barriery self(s) and assign(s) to The Davids of the Davids of Enterphysios, a sone peak construct and conting order the laws of the Communicated of Fundation barriers a principal place of business at 3700 Marine Street, Suits 500, Philadelphia, Pennsylvania (9104-3147 (the Assignee) their entire sights, titles and interests

check applicable barfer) ID for the United States of America (as defined in 35 U.S.C. § 100).
(II stat throughout the world.

in the structure browst at Department Metal Jose and Other Anghest by Figure annex Antagogy for which application of Metal Jose and Other Anghest by Figure annex Antagogy for which application of America on May 1.1992 (also brown as New provisional Application No. 02071.351), and in any and all applications for the section of the second provisional Applications for the second in any and all common, extensions, and the continuing applications or Letters Penns(s) and dividingly and the continuing applications of the full and of the term or terms for which much Laters Penns(s) issue, such cation right, title and interest to be build and capped by the above track of the second provisions and the world and capped by the second part of the second provision and the second provision to the second provision of the second provision of the second provision to the second provision of the second provision to the secon

The undersigned agree(s) to execute all papers mossessy in constraint with the application(s) and any continuing, divinional, release, necessmanths or corresponding application(s) thereof and also to execute apparate antigraments in connection with such applications as the Assigner may down necessary or expectant.

The undersigned agree(s) to execute all papers recessary in extension with my interfacence that may be declared emercing the applicaments) or any continuing, divisional, release or contamination application thereof and to cooperate with the Amignes in every way possible to obtaining evidence and going forward with such interference.

The undersigned hereby represents that undersigned his (they have) full right to convey undersigned entire interest herein assigned, and that undersigned has (they have) not executed, and will not execute, any agreement in conditor therewish.

The undersigned hereby grant(s) Townsond and Townsond and Crew LLP. Two Embarcadore Copen, Sightle Picer, Sen Francisco, (A 9411-3834, power to insert in this assignment my further identification that may be presented or desirable in order to comply with the rules of the United States Perent and Trademark Office the recordation of this document.

Date 6/2/88 Signature of Inventor Develope

STATE OF PENNSYLVANIA:

SS

COUNTY OF PHILADELPHIA:

On this 200 day of JUNE 1998, before me, FELECIA J. WILLIAMS (See

IN WITHINGS WHEREOF, executed by the understand on the date opposite her name.

Manually appeared _____ David Christianson

WITNESS my hand and official scal

Signature

Principal Williams Milling Public
Philadelphia Shahabibbia County
Commercial Principal

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PATENT 3645-0101P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. THOMPSON et al.

Appl. No.:

09/071,351

Group:

1743

Filed:

April 30, 1998

Examiner: A. SODERQUIST

Patent No.:

Issue Date:

For:

DETERMINATION OF METAL IONS IN SOLUTION

BY PHOTOLUMINESCENCE ANISOTROPY

CERTIFICATE UNDER 37 C.F.R. § 3.73(b) SHOWING CHAIN OF TITLE

Assistant Commissioner for Patents Washington, DC 20231

Sir:

University of Pennsylvania, a University, certifies that it is the assignee of the patent application or issued patent identified above by virtue of either:

An assignment from the inventor(s) of the patent application or issued patent identified above. The assignment was recorded in the Patent and Tradematk Office at Real 9359, Frame 0398-0400, or for which a copy thereof is attached.

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B. A chain of title from the inventor(s), of the patent application or issued patent identified above, to the current assignee as shown below:

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Appl. No. 09/071,351

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The undersigned has reviewed all the documents in the chain of title of the patent application or issued patent identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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10/18/00

Signature

LOUIS P. BERNEMAN

CENTER FOR TECHNOLOGY TRANSFER

Title

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CHALIN A. SMITH, ESQ. OFFICE OF RESEARCH AND DEVELOPMENT 515 WEST LONBARD STREET SHITE 500 BALTIMORE, MD 21201-1602

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RECORDATION DATE: 08/05/1998

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ASSIGNOR: ELBAUM, DANIEL DOC DATE: 07/12/1998

ASSIGNOR:

CHRISTIANSON, DAVID

PENNSTLVANIA, UNIVERSITY OF Assignee: 3700 MARKET STREET, SUITE 300 INTELLECTUAL PROPERTY OFFICE

DOC DATE: 07/12/1998

PHILACELPHIA, PENNSYLVANIA 19104-3147

SERTAL NUMBER: 09071351

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To the Honorable Commissioner of Parents 200

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4 Application attainet(s) or patent numbers(s):	
A. Parent Application No. (s) <u>69/071 351</u> . Filed April 30, 1. Additional numbers attached? () Yes () No. 5. Name and address of party to where correspondence consensing	
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regented des unment.

Chalin A. Smith Esq. Nome of Person Signing

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